



A/R 5-401

OFFICE OF EMERGENCY MEDICAL SERVICES
Administrative Requirements Manual

Effective: 6/30/2002 Authorization: Page: 1 of 10
 A/R Title: Ambulance Equipment List
 Basic Life Support
 Supersedes: BLS List Effective March 1, 2000

General Principles

- A. **AUTHORIZED EQUIPMENT:** Ambulance services must carry equipment and medications as required by Statewide Treatment Protocols. Ambulance services should not equip ambulances with equipment that is outside of scope of practice of its EMT employees, or outside of the service's level of licensure.
- B. **PERFORMANCE STANDARDS:** All equipment must be designed and constructed to meet medical performance objectives and must not endanger patients.
- C. **MAINTENANCE:** All equipment and supplies must be maintained according to manufacturers' specifications with regard to maintenance, storage, expiration date, replacement, etc.

Item #	Name	Class	Description & Quantity
1	Ambulance Cot	I, II	<ul style="list-style-type: none"> One 4-wheeled, multi-level ambulance cot. Standard cot mattress with waterproof cover. Patient restraining devices at chest (commercial shoulder harness or equal) hip, and knee to prevent lateral or longitudinal displacement of the patient during transport. Dual I.V. holder, capable of being cot mounted. Padded wrist and ankle restraints, minimum one complete set.
2	Bag Valve Mask Ventilation Unit	All	<p>One (1) hand-operated bag/mask ventilation unit with adult mask(s), capable of use with oxygen supplies (disposable, single use units recommended). Unit must be accessible within the patient compartment, and include, at minimum:</p> <ul style="list-style-type: none"> (a) One (1) each child and infant size bag/mask ventilation units with Appropriate mask(s), capable of use with oxygen supply (disposable, single use units recommended); (b) Two (2) oxygen connector tubes, minimum 84 inches long; (c) One (1) oxygen supply reservoir for each bag/mask ventilation unit.
3a	Portable Oxygen Unit	All	<p>Portable positive pressure resuscitator/inhalation unit designed to operate in conjunction with external cardiac compressions and deliver nearly 100% oxygen. All components must be stored together. Unit must be equipped with:</p> <ul style="list-style-type: none"> (a) One (1) bag/valve/mask ventilation unit. The Addition of a flow restricted, oxygen powered ventilation device (demand valve) is optional; (b) Oxygen cylinder with minimum capacity of 300 liters; (c) Oxygen cylinder pressure gauge and regulator capable of delivering a range of zero (0) to fifteen (15) liters per minute;

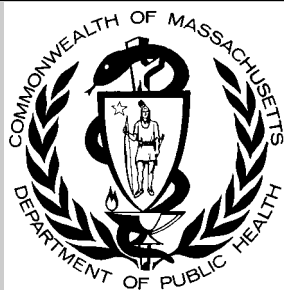


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Item #	Item Name	class	Description and Quantity
3a Cont'd (Port. Oxygen Cont.)			(d) Two (2) different sizes of resuscitator face masks; (e) Two (2) Each child and adult size transparent, disposable, high concentration oxygen masks with delivery tubes. (f) Two (2) adult nasal cannula with delivery tube; (g) Oxygen connecting tubing; (h) Cylinder wrench or wheel secured to unit; One (1) full spare oxygen cylinder, minimum 300 liters. All spare cylinders to be maintained in vehicle, but not part of the kit. All spare cylinders must be stored in a crash stable devices per KKK-A-1822, and any amendments thereto.
3b	Installed Oxygen System	I, II	An installed oxygen system conforming to Applicable sections of the Federal Specification for Ambulances KKK-A-1822, and any amendments thereto, and equipped with the following: (a) Two (2) Flowmeters capable of delivering a range of zero (0) to 15 liters per minute, at minimum; (b) Unbreakable oxygen humidifier, disposable, for single use only; (c) Sterile water for use with oxygen humidifier; (d) Four (4) each adult and child size, transparent, disposable, high concentration oxygen masks with delivery tubes; (d) Four (4) Each adult and child sizes of disposable nasal cannulae with delivery tubes;
4	Installed Suction	I, II	[required by KKK-A-1822 s.3.12.3; but not previously itemized on equipment list] Electrically powered suction aspirator system shall be furnished with an illuminated switch, and panel mounted, to include: (a) One (1) non-breakable, transparent collection bottle or bag, minimum 1,000 ml capacity; (b) One (1) suction rinsing water bottle; (c) Two (2) semi-rigid pharyngeal suction tip with thumb suction control port; (e) Two (2) transparent or translucent, non-kinking suction tubing min. 1/4 inch in diameter; (f) Two (2) Each 5, 8, 14 French suction catheters; and ten (10) spare collection bags when bag type system is furnished.
5	Portable Suction Unit	All	One (1) adjustable gas or battery powered portable suction apparatus, capable of delivering a minimum vacuum of 600 millimeters of mercury and equipped with the following: (a) Wide bore, non-kinking tube;



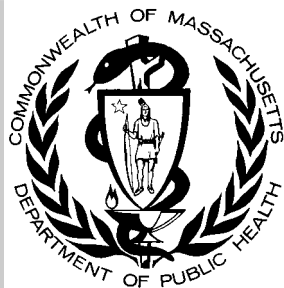
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5 Cont'd			(b) Pharyngeal suction tip; (c) Non-breakable, transparent collection bottle, minimum capacity 550 cc (disposable container recommended); (d) One (1) pair disposable exam type gloves; (e) One (1) combination face mask/eye shield or one (1) each facemask and protective eye wear.
6	First Aid Kits	I, II	Two (2) portable first aid kits.
		IV, V	One (1) portable first aid kit.
			Kits may be incorporated into other kits (i.e., portable oxygen kit.) Each first aid kit to be supplied and equipped with the following equipment: (a) Three (3) wrapped oropharyngeal airways, one (1) each, infant, child and adult sizes; (b) Twelve (12) small dressings (sterile gauze pads, minimum size 4"x4"); (c) Four (4) medium dressings, sterile, minimum size 5" x 9"; (d) Two (2) large dressings (sterile universal dressings, minimum size 10"x 3 0") (e) Six (6) rolls soft roller, self-adhering bandage, minimum 4" x 5 yds; (f) Four (4) cravats or triangular bandages, minimum 40" wide; (g) Two (2) arterial tourniquets for control of arterial bleeding, commercial or equivalent; (h) Two rolls 2" adhesive tape, minimum 5 yards; (i) One (1) 7" bandage scissors or equivalent; (j) One (1) adult size sphygmomanometer; (k) One (1) stethoscope; (l) One (1) penlight-type flashlight; (m) One (1) unbreakable container of sterile water or saline solution, minimum one pint (500 cc); (n) One (1) wrapped 3 ounce bulb syringe for irrigation purposes; (o) Two (2) cold packs; (p) One (1) tube glucose based paste or equivalent; (q) Two (2) wrapped tongue depressors for glucose administration; (r) Six (6) band-aids, minimum 3/4"; (s) One (1) mouth-to-mouth resuscitator mask with one way valve and an oxygen port (disposable type recommended); (t) Two (2) combination face mask/eye shield or two (2) each facemask and protective eye wear; (u) Two (2) pair disposable exam type gloves.
7	Traction Splints	I, II	<ul style="list-style-type: none"> One (1) hinged Thomas-type half ring lower extremity splint or equivalent; One (1) child-sized hinged Thomas-type half ring lower extremity type with ankle hitch and leg ties or equivalent, with ankle hitch and leg ties. All accessory items to be stored with splints.

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Item #	Item Name	Class	Description and Quantity
8	Padded Board Splints	All	Covered padded board splints or equivalent impervious to saturation by fluids, minimum two (2) each of the following sizes: (a) 3 feet by 3 inches; (b) 15" inches by 3 inches; (c) 4 1/2 feet by 3 inches.
9	Spine Boards and Accessories	All	<ul style="list-style-type: none"> One (1) half spine board meeting AAOS standards, with three (3) torso straps and head strap (2" tape or functional equivalent), or equivalent (i.e., KED); One (1) full spine board meeting AAOS standards; Accessories for each full spine board carried, stored together, as follows: (a) Four (4) straps of 9 foot length or functional equivalent; (b) Four (4) adult rigid cervical collars of various sizes (e.g. no-neck, small, medium, and large), or one (1) adult adjustable collar, and three (3) child size rigid cervical collars of various sizes (e.g. infant, toddler, and child), or one pediatric adjustable collar, at a minimum; (c) Sufficient padding material to maintain in-line head and cervical spine support and stabilization (i.e., foam blocks, rolled blankets, and/or towels).
10	Stair Chair	I, II	One (1) stair chair with patient restraint straps
11	Auxiliary Stretcher	I, II	One (1) auxiliary stretcher with patient restraint straps, or equivalent (i.e., orthopedic "scoop" stretcher, "Reeves" type stretcher, long spine board)
12	Transfer Sheet	I, II	One (1) transfer sheet with a minimum of six (6) handles, or equivalent.
13	Airways	I, II	Six (6) Wrapped oropharyngeal airways (2) Each infant, child, and adult [in addition to those listed in the first aid kit]; (a) Eight (8) adult size nasal airways, one (1) each 20F, 22F, 24F, 26F, 28F, 30F, 32F, and 34F; (c) Four pediatric nasal airways, One (1) Each 12F, 14F, 16F, 18F; (d) One disposable package water soluble lubricant per nasal airway.
Revised 12/00			
14	Small Dressings	I, II	Twenty-four (24) sterile gauze pads, minimum 4" x 4".
15	Medium Dressings	I, II	Twelve (12) sterile, individually packaged dressings, minimum 5" x 9", or equivalent (i.e., sterile sanitary napkins)



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Item #	Item Name	class	Description and Quantity
16	Large Dressings	I, II	Six (6) sterile, individually wrapped universal dressing, Minimum 10" x 30".
17	Soft Roller Bandage	I, II	Twelve (12) rolls soft roller, self-adhering bandage, either 3" or 4" size.
18	Triangular Bandage	I, II	Twelve (12) triangular, commercial or equivalent, of unbleached muslin, minimum 40" wide.
19	Adhesive Tape	I, II	Four (4) rolls of 1"x 5yd, one of which must be hypoallergenic.
20	Bandage Shears	I, II	One (1) pair bandage shears.
21	Burn Sheets	All	Two (2) sanitary, wrapped burn sheets, linen or disposable.
22	Obstetrical Kit	All	One (1) sterile commercial obstetrical kit; OR One (1) sterile obstetrical kit containing the following: (a) One (1) large towel; (b) One (1) receiving blanket, or equivalent; (c) One (1) pair sterile disposable plastic or rubber gloves; (d) Six (6) sterile gauze pads, minimum 3" x 3"; (e) Two (2) Kelly clamps or sterile ties; (f) Six (6) sanitary napkins; (g) One (1) infant bulb syringe; (h) One (1) pair scissors (bandage or surgical blade); (h) One (1) container with lid for carrying placenta; (i) One (1) newborn swaddler system, i.e. space blanket, foil swadler, or equivalent to retain body temperature.
23	Poison Antidote Kit	All	One (1) poison antidote kit, containing: (a) Activated charcoal; Measuring device.
24	Irrigation Fluid	I, II	Three (3) liters of sterile water or saline solution, in unbreakable containers, in a minimum of three (3) containers.
25	Aluminum Foil	I, II	One (1) roll of aluminum foil, minimum 12 inches by 25 feet, or adult size space blanket.
26	Polyethylene Film	I, II	One (1) roll of polyethylene film.



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Item #	Item Name	class	Description and Quantity
27	Bed Pan	I, II,	One (1) adult bed pan.
28	Motion Sickness	I, II, IV	Two (2) motion sickness bags, or equivalent , capable of being sealed.
29	Pillows	I, II IV, V	Two (2) pillows with waterproof plastic covers, and four (4) pillow cases. One (1) pillow with waterproof plastic cover, and two (2) pillow cases.
30	Sheets	I, II IV, V	Eight (8) sheets, disposable or linen; Two (2) sheets, disposable or linen.
31	Blankets	I, II IV, V	Four (4) blankets. Two (2) blankets.
32	Towels	I, II	Four (4) towels.
33	Tissues	I, II	Two (2) packages of disposable paper tissues.
34	Drinking Cups	All	Two (2) or more disposable drinking cups.
35	Cold Packs	I, II	Four (4) cold packs
36	Glucose	I,II	Two (2) glucose based paste or equivalent, and wrapped tongue depressors for glucose administration. (<i>other than what is in first aid kits.</i>)
37	Infection Control Kit	All	One (1) infection control kit, containing two (2) each of disposable, fluid resistant gowns, masks, caps, protective eye wear, and two (2) different sizes of gloves.
38	Ring Cutter	I, II,	One (1) ring cutter.

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39	Adult Sphygmomanometer	I	One (1) adult, sphygmomanometer.
40	Large Adult	All	One (1) large adult, or thigh size sphygmomanometer.
41	Child Size Sphygmomanometer	I, II, V	One (1) child size sphygmomanometer.
42	Infant Sphygmomanometer	All	One (1) infant size sphygmomanometer.
43	Stethoscope		One (1) stethoscope to be a component of patient compartment stocks. (other than what is in first aid kits.)
44	Plastic Bags	I, II	Two (2) large plastic bags with ties.
45	Contaminated Trash Container	All	Two (2) disposable "Bio-Hazard" bags, with ties.
47	Eye Shields	I, II	Two (2) combination face mask/eye shield or two (2) each face mask and protective eye wear.
48	Gloves	I, II	Six (6) pairs of disposable exam type gloves in three (3) different sizes.
49	Hand Cleaner	I, II, V	One (1) dispenser antiseptic hand cleaner, or 25 individually wrapped antiseptic hand wipes.
50	Latex-free Equipment	ALL	One (1) commercial latex-free kit; OR one (1) labeled latex-free kit containing the following: (a) latex-free examination gloves, two (2) pairs each, small, medium and large; (b) latex-free tourniquet; (c) latex-free adult BVM and masks; (d) latex free high concentration, disposable, oxygen masks with delivery tubes, two (2) each, adult and child; (e) latex-free nasal cannulae and delivery tubes, two (2) each, adult and child; (f) latex-free B/P cuff; and (g) latex-free stethoscope.

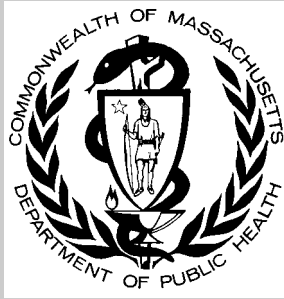
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51 CPR Board	I,II	CPR board or functionally equivalent (i.e., short board) hard surface for patient torso accessible to patient compartment.
52 Automatic Defibrillator	I,II,V	One Automatic external cardiac defibrillator (AED) appropriate to ambulance staffing configuration, with appropriate accessories. Effective date: March 1, 2002
53 Epi-Pens	ALL	Two (2) each, child and adult Epi-Pens. Effective June 30, 2002
54 Aspirin	ALL	30 tablets of chewable pediatric-strength (81 mg/tablet) aspirin, or 30 tablets of adult-strength (162-325 mg/tablet) aspirin. Effective June 30, 2002



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EQUIPMENT TO GAIN ACCESS

Item #	Item name	class	Description and Quantity
1	Equipment to Gain Access	I,II	(a) One (1) screwdriver, minimum 8" regular blade (b) One (1) hacksaw with six (6) wire (carbide) blades (c) One (1) pair of pliers, 10" vice grip (d) One (1) short handled sledge hammer, minimum 3 pounds (e) One (1) rope, synthetic, minimum 50 feet by 1/2 inch diameter or functional equivalent (f) Two (2) pairs of gloves (leather gauntlets) (g) Two (2) pairs of goggles (clear eye protective)



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VEHICLE EQUIPMENT

Item #	Item name	Class	Description and Quantity
1	Warning Lights	V	Emergency warning beacon, visible 360 degrees, as permitted by M.G.L. c.90, s.7, or as required under KKK-A-1822 and any amendments thereto.
2	Audible Warning Devices	V	A siren, audible 500 feet to the front.
3	Maps	I, II, V	Street directories and road maps for primary and backup areas served.
4	Fire Extinguishers	I, II	Two (2) adequately charged fire extinguishers, five (5) pound CO2 or dry powder, Underwriter's Laboratory approved, one of which shall be mounted in the patient compartment.
		V	One (1) adequately charged fire extinguisher, five (5) pound CO2 or dry powder, Underwriter's Laboratory approved.
5	Handlights	I, II, V	Two (2) 6-volt handlights, bulb type, or two bulb type handlights with rechargeable battery of 4.5 volts minimum.
6	Chock Blocks	I, II	Two (2) vehicle chock block.
7	Road reflectors	I, II, V	Six (6) DOT approved triangular reflectors, or equivalent.
8	Hazardous Material Guidebooks	I, II, V	<ul style="list-style-type: none"> One (1) U.S. Department of Transportation Emergency Response Guidebook, current edition; One (1) National Institute of Occupational Health and Safety (NIOSH) Pocket Guide to Chemical Hazards, current edition.
9	Binoculars	I, II, V	One (1) pair of binoculars minimum 7x35 mm.
10	Triage Tags	I, II, V	Twenty five (25) triage tags.
11	Protective Equipment	I, II, V	Personal protective equipment adequate to safeguard crew from anticipated exposures as defined by the licensee.
12	Reflective Garment	All	One (1) set reflective vest or reflective garment, or equivalent, per crew member.
13	Protective Masks	All	Two (2) respirators, conforming to OSHA Bloodborne Pathogens Standard 29 CFR 1910.1030 (HEPA).